IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A lithium ion secondary battery, comprising:

a positive electrode comprising an active material containing a composite oxide;

a negative electrode; and a nonaqueous electrolyte;

the composite oxide having a composition represented by a structural formula (1) given below:

$$Li_x (Ni_{1-y}Me1_y) (O_{2-z}X_z) + A \quad \ldots (1)$$

where Me1 is at least one kind of an element selected from the group consisting of B, Mg, Al, Sc, Ti, V, Cr, Mn, Co, Cu, Zn, Ga, Y, Zr, Nb, Mo, Tc, Ru, Sn, La, Hf, Ta, W, Re, Pb and Bi, X is at least one kind of a halogen element selected from the group consisting of F, Cl, Br and I, the molar ratios x, y, z are $0.02 \leqq x \leqq 1.3$, $0.005 \leqq y \leqq 0.5$, and $0.01 \leqq z \leqq 0.5$, A contains Ca and at least one element selected from the group consisting of Na, K and S, and each of the Na content, the K content and the S content of the composite oxide falls within a range of ~~between~~ from 600 ppm ~~and~~ to 3,000 ppm, and the Ca content in said composite oxide is not higher than 500 ppm.

Claim 2 (Cancelled)

Claim 3 (Currently Amended): A lithium ion secondary battery according to claim ~~2~~ 1, wherein said element A includes a combination of Ca, Na and S, a combination of Na and Ca or a combination of S and Ca.

Claim 4 (Currently Amended): A lithium ion secondary battery according to claim 1, wherein each of the Na content, the K content and the S content in said composite oxide falls within a range of ~~between~~ from 1,000 ppm ~~and~~ to 2,500 ppm.

Claim 5 (Cancelled)

Claim 6 (Original): A lithium ion secondary battery according to claim 1, wherein at least a part of said element A is precipitated in triple points present in grain boundaries of said composite oxide.

Claim 7 (Cancelled)

Claim 8 (Cancelled)

Claim 9 (Cancelled)

Claim 10 (Currently Amended): A lithium ion secondary battery according to claim ~~7~~ 21, wherein at least a part of said element A and at least a part of said element B are precipitated in triple points present in grain boundaries of said composite oxide.

Claim 11 (Currently Amended): A lithium ion secondary battery, comprising:

a positive electrode comprising an active material containing a composite oxide;

a negative electrode; and

a nonaqueous electrolyte;

the composite oxide having a composition represented by a structural formula (3) given below:

$Li_x(Ni_{1-v-s}Co_vMe2_s)(O_{2-z}X_z) + A$ ... (3)

where Me2 is at least one kind of an element selected from the group consisting of B, Mg, Al, Sc, Ti, V, Cr, Mn, Cu, Zn, Ga, Y, Zr, Nb, Mo, Tc, Ru, Sn, La, Hf, Ta, W, Re, Pb and Bi, X is at least one kind of a halogen element selected from the group consisting of F, Cl, Br and I, the molar ratios x, v, s and z are $0.02 \leqq x \leqq 1.3$, $0.005 \leqq v \leqq 0.5$, $0.005 \leqq s \leqq 0.5$ and $0.01 \leqq z \leqq 0.5$, A contains Ca and at least one element selected from the group consisting of Na, K and S, and each of the Na content, the K content and the S content of the composite oxide falls within a range of ~~between~~ from 600 ppm ~~and~~ to 3,000 ppm and the Ca content in said composite oxide falls within a range of from 20 ppm to 500 ppm.

Claim 12 (Cancelled).

Claim 13 (Original): A lithium ion secondary battery according to claim 11, wherein said element Me2 is at least one kind of an element selected from the group consisting of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta and W.

Claim 14 (Currently Amended): A lithium ion secondary battery, comprising:

a positive electrode comprising an active material containing a composite oxide;

a negative electrode; and

a nonaqueous electrolyte;

the composite oxide having a composition represented by a structural formula (4) given below:

$Li_x(Ni_{1-v-s}Co_vMe2_s)(O_{2-z}X_z) + A + bB$ ... (4)

where Me2 is at least one kind of an element selected from the group consisting of B, Mg, Al, Sc, Ti, V, Cr, Mn, Cu, Zn, Ga, Y, Zr, Nb, Mo, Tc, Ru, Sn, La, Hf, Ta, W, Re, Pb and Bi, X is at least one kind of a halogen element selected from the group consisting of F, Cl, Br and I, the molar ratios x, v, s and z are $0.02 \leqq x \leqq 1.3$, $0.005 \leqq v \leqq 0.5$, $0.005 \leqq s \leqq 0.5$ and $0.01 \leqq z \leqq 0.5$, A contains Ca and at least one element selected from the group consisting of Na, K and S, each of the Na content, the K content and the S content of the composite oxide falls within a range of ~~between~~ from 600 ppm ~~and~~ to 3,000 ppm, the Ca content in said composite oxide is not higher than 500 ppm, B contains at least one element selected from the group consisting of Si and Fe, and the content b of said element B in said composite oxide falls within a range of ~~between~~ from 20 ppm ~~and~~ to 500 ppm.

Claim 15 (Cancelled).

Claim 16 (Original): A lithium ion secondary battery according to claim 14, wherein said element Me2 is at least one kind of an element selected from the group consisting of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta and W.

Claim 17 (Cancelled).

Claim 18 (Cancelled).

Claim 19 (Cancelled).

Claim 20 (Cancelled).

Claim 21. (New) A lithium ion secondary battery, comprising:

a positive electrode comprising an active material containing a composite oxide;

a negative electrode; and a nonaqueous electrolyte;

the composite oxide having a composition represented by a structural formula (1) given below:

$$Li_x (Ni_{1-y}Me1_y) (O_{2-z}X_z) + A \quad \ldots (1)$$

where Me1 is at least one kind of an element selected from the group consisting of B, Mg, Al, Sc, Ti, V, Cr, Mn, Co, Cu, Zn, Ga, Y, Zr, Nb, Mo, Tc, Ru, Sn, La, Hf, Ta, W, Re, Pb and Bi, X is at least one kind of a halogen element selected from the group consisting of F, Cl, Br and I, the molar ratios x, y, z are $0.02 \leqq x \leqq 1.3$, $0.005 \leqq y \leqq 0.5$, and $0.01 \leqq z \leqq 0.5$, A contains Na and S, and each of the Na content and the S content of the composite oxide falls within a range of from 600 ppm to 3,000 ppm.

22. (New) A lithium ion secondary battery according to claim 2, wherein said composite oxide further includes an element B containing at least one element selected from the group consisting of Se and Fe.

23. (New) A lithium ion secondary battery according to claim 22, wherein the content of said element B in said composite oxide falls within a range of from 20 ppm to 500 ppm.

24. (New) A lithium ion secondary battery according to claim 22, wherein the content of said element B in said composite oxide falls within a range of from 20 ppm to 250 ppm.

25. (New) A lithium ion secondary battery according to claim 1, wherein the Ca content in the composite oxide falls within a range of from 20 ppm to 500 ppm.

26. (New) A lithium ion secondary battery according to claim 1, wherein the Ca content in the composite oxide falls within a range of from 50 ppm to 500 ppm.

27. (New) A lithium ion secondary battery according to claim 1, wherein the A content in the composite oxide falls within a range of from 600 ppm to 7000 ppm.

28. (New) A lithium ion secondary battery according to claim 1, wherein the A content in the composite oxide falls within a range of from 1000 ppm to 5000 ppm.

29. (New) A lithium ion secondary battery according to claim 21, wherein the A content in the composite oxide falls within a range of from 600 ppm to 7000 ppm.

30. (New) A lithium ion secondary battery according to claim 21, wherein said composite oxide further includes at least one element selected from the group consisting of Ca and K.